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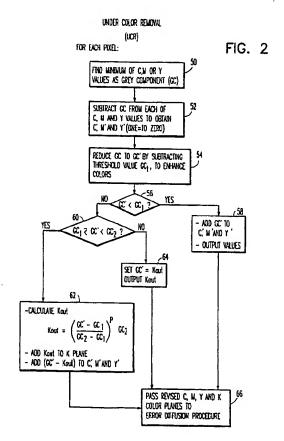
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(54) Digital colour printer system

A system (10) selectively enables a printer (20) to deposit on a sheet C,M, Y and K color dots at each of the plurality of pixel locations to produce a color image. The system (10) comprises a memory (14) for storing C, M, Y and K color values for each pixel in the color image and a processor (12) for controlling selective deposition of the C, M, Y and K colors. The processor (12) determines a gray value for each pixel location from values stored in the C, M, and Y color planes (28, 30, 32). The processor (12) subtracts the determined gray value from the C, M, and Y values which correspond to the pixel location and then determines a relationship of the gray value to a non-linear function and in dependence upon the relationship alters the C, M and Y pixel values accordingly. The processor (12) either (1) adds the gray value back to the C, M, and Y values for the pixel location, or (2) adds a first portion of the gray value to the C, M, and Y values for the pixel location and a second portion of the gray value to the K value for the pixel location; or (3) adds all of the gray value to a K value for the pixel location. As a result, the C, M, Y and K values are altered in accordance with the determined gray value. The altered color values are then prioritized and the processor (12) determines which colors should be printed at each pixel location and diffuses color error values to neighboring pixel locations after such determination. The prioritization procedure enables print priority to be given to either the brightest color dot or to the color dot that is most visible to the human eye.





EUROPEAN SEARCH REPORT

Application Number EP 95 30 0498

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	·			TECHNICAL FIELDS SEARCHED (Int.CI.6)
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	The present search report has been draw	vo up for all claims	_	
	Place of search	Date of completion of the search	1	Examiner
	THE HAGUE	22 March 1996	De	Roeck, A
X: par Y: par dec A: tecl	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with another ument of the same category halogical backgroundwritten disclosure	T: theory or princi E: earlier patent d after the filing D: document cited L: document cited	ocument, but publi date in the application for other reasons	Ished on, or

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